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NEWS	1	Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	"Ask CAS" for self-help around the clock
NEWS	3	FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS	4	APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS	5	MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS	6	MAY 11 KOREAPAT updates resume
NEWS	7	MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS	8	MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and USPATFULL/USPAT2
NEWS	9	MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS	10	JUN 02 The first reclassification of IPC codes now complete in INPADOC
NEWS	11	JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and display fields
NEWS	12	JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS	13	JUL 11 CHEMSAFE reloaded and enhanced
NEWS	14	JUL 14 FSTA enhanced with Japanese patents
NEWS	15	JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS EXPRESS	JUNE 30	CURRENT WINDOWS VERSION IS V8.01b, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.
NEWS HOURS		STN Operating Hours Plus Help Desk Availability
NEWS LOGIN		Welcome Banner and News Items
NEWS IPC8		For general information regarding STN implementation of IPC 8
NEWS X25		X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that specific topic.

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\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 15:44:16 ON 19 JUL 2006

=> file biosis  
COST IN U.S. DOLLARS

SINCE FILE TOTAL

FULL ESTIMATED COST

ENTRY      SESSION  
0.21      0.21

FILE 'BIOSIS' ENTERED AT 15:44:25 ON 19 JUL 2006  
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FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 12 July 2006 (20060712/ED)

=> s (karite or "African butter" or shetoulou or "shea butter" or "shea tree" or  
gharitti or "Butyrospermum parkii" or "butter seed" or "Vitellaria paradoxa") and  
pd<20030630 and saponin

```
20 KARITE
72263 "AFRICAN"
2117 "AFRICANS"
73167 "AFRICAN"
      ("AFRICAN" OR "AFRICANS")
4676 "BUTTER"
169 "BUTTERS"
4724 "BUTTER"
      ("BUTTER" OR "BUTTERS")
0 "AFRICAN BUTTER"
      ("AFRICAN"(W)"BUTTER")
0 SHETOULOU
255 "SHEA"
1 "SHEAS"
256 "SHEA"
      ("SHEA" OR "SHEAS")
4676 "BUTTER"
169 "BUTTERS"
4724 "BUTTER"
      ("BUTTER" OR "BUTTERS")
48 "SHEA BUTTER"
      ("SHEA"(W)"BUTTER")
255 "SHEA"
1 "SHEAS"
256 "SHEA"
      ("SHEA" OR "SHEAS")
94779 "TREE"
74655 "TREES"
137988 "TREE"
      ("TREE" OR "TREES")
21 "SHEA TREE"
      ("SHEA"(W)"TREE")
0 GHARITTI
39 "BUTYROSPERMUM"
33 "PARKII"
24 "BUTYROSPERMUM PARKII"
      ("BUTYROSPERMUM"(W)"PARKII")
4676 "BUTTER"
169 "BUTTERS"
4724 "BUTTER"
      ("BUTTER" OR "BUTTERS")
129425 "SEED"
78959 "SEEDS"
165153 "SEED"
```

```

      ("SEED" OR "SEEDS")
    4 "BUTTER SEED"
      ("BUTTER"(W)"SEED")
469 "VITELLARIA"
  1 "VITELLARIAS"
469 "VITELLARIA"
      ("VITELLARIA" OR "VITELLARIAS")
1438 "PARADOXA"
  64 "VITELLARIA PARADOXA"
      ("VITELLARIA"(W)"PARADOXA")
13683345 PD<20030630
      (PD<20030630)
5795 SAPONIN
4237 SAPONINS
8578 SAPONIN

```

```

L1      (SAPONIN OR SAPONINS)
      1 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
        "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER
        SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

```

=> d ll l ti

```

L1 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
TI Biochemical and histological alterations in the liver of the broiler after
  ingestion of vegetable saponins and effects of dietary
  supplementation with adsorbents or methyl donor.

```

=> s (karite or "African butter" or shetoulou or "shea butter" or "shea tree" or gharitti or "Butyrospermum parkii" or "butter seed" or "Vitellaria paradoxa") and pd<20030630 and (waste or waste or "lees" or "by-product" or "by product" or spent UNMATCHED LEFT PARENTHESIS 'AND (WASTE'

The number of right parentheses in a query must be equal to the number of left parentheses.

=> s (karite or "African butter" or shetoulou or "shea butter" or "shea tree" or gharitti or "Butyrospermum parkii" or "butter seed" or "Vitellaria paradoxa") and pd<20030630 and (waste or waste or "lees" or "by-product" or "by product" or spent)

```

20 KARITE
72263 "AFRICAN"
2117 "AFRICANS"
73167 "AFRICAN"
      ("AFRICAN" OR "AFRICANS")
4676 "BUTTER"
169 "BUTTERS"
4724 "BUTTER"
      ("BUTTER" OR "BUTTERS")
0 "AFRICAN BUTTER"
      ("AFRICAN"(W)"BUTTER")
0 SHETOULOU
255 "SHEA"
  1 "SHEAS"
256 "SHEA"
      ("SHEA" OR "SHEAS")
4676 "BUTTER"
169 "BUTTERS"
4724 "BUTTER"
      ("BUTTER" OR "BUTTERS")
48 "SHEA BUTTER"
      ("SHEA"(W)"BUTTER")

```

255 "SHEA"  
 1 "SHEAS"  
 256 "SHEA"  
 ("SHEA" OR "SHEAS")  
 94779 "TREE"  
 74655 "TREES"  
 137988 "TREE"  
 ("TREE" OR "TREES")  
 21 "SHEA TREE"  
 ("SHEA" (W) "TREE")  
 0 GHARITTI  
 39 "BUTYROSPERMUM"  
 33 "PARKII"  
 24 "BUTYROSPERMUM PARKII"  
 ("BUTYROSPERMUM" (W) "PARKII")  
 4676 "BUTTER"  
 169 "BUTTERS"  
 4724 "BUTTER"  
 ("BUTTER" OR "BUTTERS")  
 129425 "SEED"  
 78959 "SEEDS"  
 165153 "SEED"  
 ("SEED" OR "SEEDS")  
 4 "BUTTER SEED"  
 ("BUTTER" (W) "SEED")  
 469 "VITELLARIA"  
 1 "VITELLARIAS"  
 469 "VITELLARIA"  
 ("VITELLARIA" OR "VITELLARIAS")  
 1438 "PARADOXA"  
 64 "VITELLARIA PARADOXA"  
 ("VITELLARIA" (W) "PARADOXA")  
 13683345 PD<20030630  
 (PD<20030630)  
 107185 WASTE  
 11075 WASTES  
 110110 WASTE  
 (WASTE OR WASTES)  
 107185 WASTE  
 11075 WASTES  
 110110 WASTE  
 (WASTE OR WASTES)  
 320 "LEES"  
 42 "BY"  
 8 "BIES"  
 6 "BYES"  
 56 "BY"  
 ("BY" OR "BIES" OR "BYES")  
 252603 "PRODUCT"  
 267102 "PRODUCTS"  
 471385 "PRODUCT"  
 ("PRODUCT" OR "PRODUCTS")  
 0 "BY-PRODUCT"  
 ("BY" (W) "PRODUCT")  
 42 "BY"  
 8 "BIES"  
 6 "BYES"  
 56 "BY"  
 ("BY" OR "BIES" OR "BYES")  
 252603 "PRODUCT"

267102 "PRODUCTS"  
471385 "PRODUCT"  
("PRODUCT" OR "PRODUCTS")  
0 "BY PRODUCT"  
("BY"(W)"PRODUCT")

22646 SPENT  
3 SPENTS  
22648 SPENT

(SPENT OR SPENTS)

L2 2 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR  
TI "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER  
SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND (WASTE OR  
WASTE OR "LEES" OR "BY-PRODUCT" OR "BY PRODUCT" OR SPENT)

=> d 12 1-2 ti

L2 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Ecology of elephant population (*Loxodonta africana*) in the Cynegetic Zone  
of Djona (Benin).

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Binding of iron, zinc, and lead ions from aqueous solution by shea  
butter (*Butyrospermum Parkii*) seed husks.

=> d 12 2 ibib

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 1994:169101 BIOSIS Full-text

DOCUMENT NUMBER: PREV199497182101

TITLE: Binding of iron, zinc, and lead ions from aqueous solution  
by shea butter (*Butyrospermum Parkii*)  
seed husks.

AUTHOR(S): Eromosele, I. C. [Reprint author]; Otitolaye, O. O.

CORPORATE SOURCE: Dep. Chem., Fed. Univ. Technol., Yola, Adamawa State,  
Nigeria

SOURCE: Bulletin of Environmental Contamination and Toxicology, (  
1994) Vol. 52, No. 4, pp. 530-537.  
CODEN: BECTA6. ISSN: 0007-4861.

DOCUMENT TYPE: Article

LANGUAGE: English

ENTRY DATE: Entered STN: 8 Apr 1994

Last Updated on STN: 10 Apr 1994

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.39

4.60

FILE 'CAPLUS' ENTERED AT 15:46:15 ON 19 JUL 2006

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FILE COVERS 1907 - 19 Jul 2006 VOL 145 ISS 4  
FILE LAST UPDATED: 18 Jul 2006 (20060718/ED)

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=> s 11

```
136 KARITE
  2 KARITES
136 KARITE
    (KARITE OR KARITES)
23274 "AFRICAN"
  846 "AFRICANS"
23656 "AFRICAN"
    ("AFRICAN" OR "AFRICANS")
20525 "BUTTER"
  826 "BUTTERS"
20611 "BUTTER"
    ("BUTTER" OR "BUTTERS")
  2 "AFRICAN BUTTER"
    ("AFRICAN"(W)"BUTTER")
    0 SHETOULOU
  848 "SHEA"
20525 "BUTTER"
  826 "BUTTERS"
20611 "BUTTER"
    ("BUTTER" OR "BUTTERS")
  560 "SHEA BUTTER"
    ("SHEA"(W)"BUTTER")
  848 "SHEA"
56707 "TREE"
42220 "TREES"
82830 "TREE"
    ("TREE" OR "TREES")
  65 "SHEA TREE"
    ("SHEA"(W)"TREE")
    0 GHARITTI
  90 "BUTYROSPERMUM"
  76 "PARKII"
  65 "BUTYROSPERMUM PARKII"
    ("BUTYROSPERMUM"(W)"PARKII")
20525 "BUTTER"
  826 "BUTTERS"
20611 "BUTTER"
    ("BUTTER" OR "BUTTERS")
139461 "SEED"
93150 "SEEDS"
185184 "SEED"
    ("SEED" OR "SEEDS")
  12 "BUTTER SEED"
    ("BUTTER"(W)"SEED")
  86 "VITELLARIA"
```

```

1 "VITELLARIAS"
87 "VITELLARIA"
   ("VITELLARIA" OR "VITELLARIAS")
635 "PARADOXA"
33 "VITELLARIA PARADOXA"
   ("VITELLARIA" (W) "PARADOXA")
23664304 PD<20030630
      (PD<20030630)
15915 SAPONIN
14422 SAPONINS
20253 SAPONIN
      (SAPONIN OR SAPONINS)
L3 10 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
      "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER
      SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

=> s 13 and 12
136 KARITE
2 KARITES
136 KARITE
      (KARITE OR KARITES)
23274 "AFRICAN"
846 "AFRICANS"
23656 "AFRICAN"
      ("AFRICAN" OR "AFRICANS")
20525 "BUTTER"
826 "BUTTERS"
20611 "BUTTER"
      ("BUTTER" OR "BUTTERS")
2 "AFRICAN BUTTER"
      ("AFRICAN" (W) "BUTTER")
0 SHETOULOU
848 "SHEA"
20525 "BUTTER"
826 "BUTTERS"
20611 "BUTTER"
      ("BUTTER" OR "BUTTERS")
560 "SHEA BUTTER"
      ("SHEA" (W) "BUTTER")
848 "SHEA"
56707 "TREE"
42220 "TREES"
82830 "TREE"
      ("TREE" OR "TREES")
65 "SHEA TREE"
      ("SHEA" (W) "TREE")
0 GHARITTI
90 "BUTYROSPERMUM"
76 "PARKII"
65 "BUTYROSPERMUM PARKII"
      ("BUTYROSPERMUM" (W) "PARKII")
20525 "BUTTER"
826 "BUTTERS"
20611 "BUTTER"
      ("BUTTER" OR "BUTTERS")
139461 "SEED"
93150 "SEEDS"
185184 "SEED"
      ("SEED" OR "SEEDS")
12 "BUTTER SEED"

```

("BUTTER" (W) "SEED")  
 86 "VITELLARIA"  
 1 "VITELLARIAS"  
 87 "VITELLARIA"  
 ("VITELLARIA" OR "VITELLARIAS")  
 635 "PARADOXA"  
 33 "VITELLARIA PARADOXA"  
 ("VITELLARIA" (W) "PARADOXA")  
 23664304 PD<20030630  
 (PD<20030630)

377328 WASTE  
 184251 WASTES  
 423198 WASTE  
 (WASTE OR WASTES)  
 377328 WASTE  
 184251 WASTES  
 423198 WASTE  
 (WASTE OR WASTES)  
 1932 "LEES"  
 1 "LEESES"  
 1933 "LEES"  
 ("LEES" OR "LEESES")  
 0 "BY"  
 15 "BIES"  
 7 "BYES"  
 22 "BY"  
 1150897 "PRODUCT"  
 1356634 "PRODUCTS"  
 2184182 "PRODUCT"  
 ("PRODUCT" OR "PRODUCTS")  
 0 "BY-PRODUCT"  
 ("BY" (W) "PRODUCT")  
 0 "BY"  
 15 "BIES"  
 7 "BYES"  
 22 "BY"  
 1150897 "PRODUCT"  
 1356634 "PRODUCTS"  
 2184182 "PRODUCT"  
 ("PRODUCT" OR "PRODUCTS")  
 0 "BY PRODUCT"  
 ("BY" (W) "PRODUCT")  
 60655 SPENT  
 7 SPENTS  
 60659 SPENT  
 (SPENT OR SPENTS)  
 0 L3 AND L2

L4

=> d l3 1-10 ti

L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Antimicrobial properties and phytochemical constituents of the leaves of  
 African mistletoe (*Tapinanthus dodoneifolius* (DC) Danser) (Loranthaceae):  
 an ethnomedicinal plant of Hausaland, Northern Nigeria

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Value of sheanut cake as a dietary ingredient for broiler chickens

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 TI Biochemical and histological alterations in the liver of the broiler after



ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor

L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Toxicological assessment of native and industrial fermented sheabuttercake in nutrition of broilers

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of basseol-triterpenes of the  $\beta$ -amyrenol group

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The contents of the shea nut, the seed of Butyrospermum parkii

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Some African oil seeds

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Two principles occurring in the fruit of the argan tree: the oil and glucoside

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The fat-containing seeds of dumori and djave

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The Seed of Mimusops djave

=> d l3 6-9 and 10 ibib  
'AND' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS ----- GI and AB  
ALL ----- BIB, AB, IND, RE  
APPS ----- AI, PRAI  
BIB ----- AN, plus Bibliographic Data and PI table (default)  
CAN ----- List of CA abstract numbers without answer numbers  
CBIB ----- AN, plus Compressed Bibliographic Data  
CLASS ----- IPC, NCL, ECLA, FTERM  
DALL ----- ALL, delimited (end of each field identified)  
DMAX ----- MAX, delimited for post-processing  
FAM ----- AN, PI and PRAI in table, plus Patent Family data  
FBIB ----- AN, BIB, plus Patent FAM  
IND ----- Indexing data  
IPC ----- International Patent Classifications  
MAX ----- ALL, plus Patent FAM, RE  
PAT5 ----- PI, SO  
SAM ----- CC, SX, TI, ST, IT  
SCAN ----- CC, SX, TI, ST, IT (random display, no answer numbers;  
SCAN must be entered on the same line as the DISPLAY,  
e.g., D SCAN or DISPLAY SCAN)  
STD ----- BIB, CLASS

IABS ----- ABS, indented with text labels  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IMAX ----- MAX, indented with text labels

ISTD ----- STD, indented with text labels  
 OBIB ----- AN, plus Bibliographic Data (original)  
 OIBIB ----- OBIB, indented with text labels  
  
 SBIB ----- BIB, no citations  
 SIBIB ----- IBIB, no citations  
  
 HIT ----- Fields containing hit terms  
 HITIND ----- IC, ICA, ICI, NCL, CC and index field (ST and IT)  
                   containing hit terms  
 HITRN ----- HIT RN and its text modification  
 HITSTR ----- HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 HITSEQ ----- HIT RN, its text modification, its CA index name, its  
                   structure diagram, plus NTE and SEQ fields  
 FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
                   its structure diagram  
 FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
                   structure diagram, plus NTE and SEQ fields  
 KWIC ----- Hit term plus 20 words on either side  
 OCC ----- Number of occurrence of hit term and field in which it occurs

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 ENTER DISPLAY FORMAT (BIB):ibib

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1943:24552 CAPLUS Full-text  
 DOCUMENT NUMBER: 37:24552  
 ORIGINAL REFERENCE NO.: 37:3961i,3962a-b  
 TITLE: The contents of the shea nut, the seed of  
           Butyrospermum parkii  
 AUTHOR(S): Bauer, K. H.; Moll, H.  
 SOURCE: Arch. Pharm. (1942), 280, 37-45  
           From: Chem. Zentr. 1942, I, 3120.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
 DOCUMENT NUMBER: 30:4760  
 ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
 TITLE: Some African oil seeds  
 AUTHOR(S): Anon.  
 SOURCE: Bulletin of the Imperial Institute, London ( 1935), 33, 271-93  
           CODEN: BUIIAD; ISSN: 0366-4279  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1918:9923 CAPLUS Full-text  
 DOCUMENT NUMBER: 12:9923  
 ORIGINAL REFERENCE NO.: 12:1686a-g  
 TITLE: Two principles occurring in the fruit of the argan tree: the oil and glucoside  
 AUTHOR(S): Moreau, L.; Leulier, A.  
 SOURCE: Bulletin des Sciences Pharmacologiques (1918), 25(Pt. 2), 81-6  
 CODEN: BSPHAV; ISSN: 0366-3493  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1914:24086 CAPLUS Full-text  
 DOCUMENT NUMBER: 8:24086  
 ORIGINAL REFERENCE NO.: 8:3508e-g  
 TITLE: The fat-containing seeds of dumori and djave  
 AUTHOR(S): Perrot, E.  
 SOURCE: Bulletin des Sciences Pharmacologiques (1914), 21, 173-6  
 CODEN: BSPHAV; ISSN: 0366-3493  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1911:3241 CAPLUS Full-text  
 DOCUMENT NUMBER: 5:3241  
 ORIGINAL REFERENCE NO.: 5:594g-h  
 TITLE: The Seed of Mimusops djave  
 AUTHOR(S): Fickendey, E.  
 SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4  
 CODEN: SSZTAW; ISSN: 0371-3296  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

=> s 12

136 KARITE  
 2 KARITES  
 136 KARITE  
 (KARITE OR KARITES)  
 23274 "AFRICAN"  
 846 "AFRICANS"  
 23656 "AFRICAN"  
 ("AFRICAN" OR "AFRICANS")  
 20525 "BUTTER"  
 826 "BUTTERS"  
 20611 "BUTTER"  
 ("BUTTER" OR "BUTTERS")  
 2 "AFRICAN BUTTER"  
 ("AFRICAN"(W)"BUTTER")  
 0 SHETOULOU  
 848 "SHEA"  
 20525 "BUTTER"  
 826 "BUTTERS"  
 20611 "BUTTER"  
 ("BUTTER" OR "BUTTERS")  
 560 "SHEA BUTTER"  
 ("SHEA"(W)"BUTTER")  
 848 "SHEA"

```

56707 "TREE"
42220 "TREES"
82830 "TREE"
      ("TREE" OR "TREES")
65 "SHEA TREE"
      ("SHEA"(W)"TREE")
0 GHARITTI
90 "BUTYROSPERMUM"
76 "PARKII"
65 "BUTYROSPERMUM PARKII"
      ("BUTYROSPERMUM"(W)"PARKII")
20525 "BUTTER"
826 "BUTTERS"
20611 "BUTTER"
      ("BUTTER" OR "BUTTERS")
139461 "SEED"
93150 "SEEDS"
185184 "SEED"
      ("SEED" OR "SEEDS")
12 "BUTTER SEED"
      ("BUTTER"(W)"SEED")
86 "VITELLARIA"
1 "VITELLARIAS"
87 "VITELLARIA"
      ("VITELLARIA" OR "VITELLARIAS")
635 "PARADOXA"
33 "VITELLARIA PARADOXA"
      ("VITELLARIA"(W)"PARADOXA")
23664304 PD<20030630
      (PD<20030630)
377328 WASTE
184251 WASTES
423198 WASTE
      (WASTE OR WASTES)
377328 WASTE
184251 WASTES
423198 WASTE
      (WASTE OR WASTES)
1932 "LEES"
1 "LEESES"
1933 "LEES"
      ("LEES" OR "LEESES")
0 "BY"
15 "BIES"
7 "BYES"
22 "BY"
1150897 "PRODUCT"
1356634 "PRODUCTS"
2184182 "PRODUCT"
      ("PRODUCT" OR "PRODUCTS")
0 "BY-PRODUCT"
      ("BY"(W)"PRODUCT")
0 "BY"
15 "BIES"
7 "BYES"
22 "BY"
1150897 "PRODUCT"
1356634 "PRODUCTS"
2184182 "PRODUCT"
      ("PRODUCT" OR "PRODUCTS")

```

```

0 "BY PRODUCT"
  ("BY" (W) "PRODUCT")
60655 SPENT
7 SPENTS
60659 SPENT
  (SPENT OR SPENTS)
L5      3 (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
        "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM PARKII" OR "BUTTER
        SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND (WASTE OR
        WASTE OR "LEES" OR "BY-PRODUCT" OR "BY PRODUCT" OR SPENT)

=> d 15 1-3 ti

L5      ANSWER 1 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI      10 years experience with Co-firing straw and coal as main fuels together
        with different types of biomasses in a CFB boiler in Grena/Denmark

L5      ANSWER 2 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI      Sorption of iron and zinc ions from non-aqueous solution by shea
        butter (Butyrospermum parkii) seed husks

L5      ANSWER 3 OF 3 CAPLUS COPYRIGHT 2006 ACS on STN
TI      A comparative study of anti-locust baits, with special reference to base
        materials

=> d hist

      (FILE 'HOME' ENTERED AT 15:44:16 ON 19 JUL 2006)

      FILE 'BIOSIS' ENTERED AT 15:44:25 ON 19 JUL 2006
L1      1 S (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR
L2      2 S (KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA BUTTER" OR

      FILE 'CAPLUS' ENTERED AT 15:46:15 ON 19 JUL 2006
L3      10 S L1
L4      0 S L3 AND L2
L5      3 S L2

=> log y
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                     ENTRY      SESSION
FULL ESTIMATED COST                138.58      143.18

STN INTERNATIONAL LOGOFF AT 15:48:27 ON 19 JUL 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAALC1654

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

```

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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006  
NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered  
NEWS 5 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records  
NEWS 6 MAY 11 KOREAPAT updates resume  
NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced  
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and  
USPATFULL/USPAT2  
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS  
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in  
INPADOC  
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and  
and display fields  
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL  
NEWS 13 JUL 11 CHEMSAFE reloaded and enhanced  
NEWS 14 JUL 14 FSTA enhanced with Japanese patents  
NEWS 15 JUL 19 Coverage of Research Disclosure reinstated in DWPI  
  
NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.  
  
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NEWS IPC8 For general information regarding STN implementation of IPC 8  
NEWS X25 X.25 communication option no longer available

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\*\*\*\*\* STN Columbus \*\*\*\*\*

FILE 'HOME' ENTERED AT 08:23:05 ON 21 JUL 2006

=> file biosis		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'BIOSIS' ENTERED AT 08:23:18 ON 21 JUL 2006  
Copyright (c) 2006 The Thomson Corporation

FILE COVERS 1969 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 19 July 2006 (20060719/ED)

=> s ("Shea nut" or karite or "African butter" or shetoulou or "shea butter" or

"shea tree" or gharitti or "Butyrospermum" or "butter seed" or "Vitellaria  
paradoxa") and pd<20030630 and saponin

255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")

6534 "NUT"  
3316 "NUTS"  
8650 "NUT"  
("NUT" OR "NUTS")

14 "SHEA NUT"  
("SHEA" (W) "NUT")

20 KARITE

72443 "AFRICAN"  
2119 "AFRICANS"  
73348 "AFRICAN"  
("AFRICAN" OR "AFRICANS")

4682 "BUTTER"  
170 "BUTTERS"  
4730 "BUTTER"  
("BUTTER" OR "BUTTERS")

0 "AFRICAN BUTTER"  
("AFRICAN" (W) "BUTTER")

0 SHETOULOU

255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")

4682 "BUTTER"  
170 "BUTTERS"  
4730 "BUTTER"  
("BUTTER" OR "BUTTERS")

48 "SHEA BUTTER"  
("SHEA" (W) "BUTTER")

255 "SHEA"  
1 "SHEAS"  
256 "SHEA"  
("SHEA" OR "SHEAS")

94904 "TREE"  
74721 "TREES"  
138146 "TREE"  
("TREE" OR "TREES")

21 "SHEA TREE"  
("SHEA" (W) "TREE")

0 GHARITTI

39 "BUTYROSPERMUM"

4682 "BUTTER"  
170 "BUTTERS"  
4730 "BUTTER"  
("BUTTER" OR "BUTTERS")

129565 "SEED"  
79030 "SEEDS"  
165314 "SEED"  
("SEED" OR "SEEDS")

4 "BUTTER SEED"  
("BUTTER" (W) "SEED")

470 "VITELLARIA"  
1 "VITELLARIAS"  
470 "VITELLARIA"  
("VITELLARIA" OR "VITELLARIAS")

1438 "PARADOXA"  
64 "VITELLARIA PARADOXA"  
("VITELLARIA"(W)"PARADOXA")  
13683429 PD<20030630  
(PD<20030630)

5804 SAPONIN  
4243 SAPONINS  
8589 SAPONIN  
(SAPONIN OR SAPONINS)

L1 1 ("SHEA NUT" OR KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA  
BUTTER" OR "SHEA TREE" OR GHARIITI OR "BUTYROSPERMUM" OR "BUTTER  
SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

=> d l1 ti

L1 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
TI Biochemical and histological alterations in the liver of the broiler after  
ingestion of vegetable saponins and effects of dietary  
supplementation with adsorbents or methyl donor.

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.87	1.08

FILE 'CAPLUS' ENTERED AT 08:24:02 ON 21 JUL 2006  
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FILE COVERS 1907 - 21 Jul 2006 VOL 145 ISS 4  
FILE LAST UPDATED: 19 Jul 2006 (20060719/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

=> s l1

848 "SHEA"  
10668 "NUT"  
5790 "NUTS"  
14258 "NUT"  
("NUT" OR "NUTS")  
65 "SHEA NUT"  
("SHEA"(W)"NUT")  
136 KARITE  
2 KARITES



```

136 KARITE
    (KARITE OR KARITES)
23278 "AFRICAN"
846 "AFRICANS"
23660 "AFRICAN"
    ("AFRICAN" OR "AFRICANS")
20531 "BUTTER"
826 "BUTTERS"
20617 "BUTTER"
    ("BUTTER" OR "BUTTERS")
2 "AFRICAN BUTTER"
    ("AFRICAN" (W) "BUTTER")
0 SHETOULOU
848 "SHEA"
20531 "BUTTER"
826 "BUTTERS"
20617 "BUTTER"
    ("BUTTER" OR "BUTTERS")
560 "SHEA BUTTER"
    ("SHEA" (W) "BUTTER")
848 "SHEA"
56735 "TREE"
42227 "TREES"
82861 "TREE"
    ("TREE" OR "TREES")
65 "SHEA TREE"
    ("SHEA" (W) "TREE")
0 GHARITTI
90 "BUTYROSPERMUM"
20531 "BUTTER"
826 "BUTTERS"
20617 "BUTTER"
    ("BUTTER" OR "BUTTERS")
139516 "SEED"
93170 "SEEDS"
185251 "SEED"
    ("SEED" OR "SEEDS")
12 "BUTTER SEED"
    ("BUTTER" (W) "SEED")
86 "VITELLARIA"
1 "VITELLARIAS"
87 "VITELLARIA"
    ("VITELLARIA" OR "VITELLARIAS")
635 "PARADOXA"
33 "VITELLARIA PARADOXA"
    ("VITELLARIA" (W) "PARADOXA")
23664304 PD<20030630
    (PD<20030630)
15921 SAPONIN
14424 SAPONINS
20259 SAPONIN
    (SAPONIN OR SAPONINS)
L2 11 ("SHEA NUT" OR KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SHEA
    BUTTER" OR "SHEA TREE" OR GHARITTI OR "BUTYROSPERMUM" OR "BUTTER
    SEED" OR "VITELLARIA PARADOXA") AND PD<20030630 AND SAPONIN

```

=> d 1-11 ti

L2 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Antimicrobial properties and phytochemical constituents of the leaves of

African mistletoe (*Tapinanthus dodoneifolius* (DC) Danser) (Loranthaceae):  
an ethnomedicinal plant of Hausaland, Northern Nigeria

- L2 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Phytochemical and antimicrobial studies on *Butyrospermum paradoxum*
- L2 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Value of sheanut cake as a dietary ingredient for broiler chickens
- L2 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor
- L2 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Toxicological assessment of native and industrial fermented sheabuttercake in nutrition of broilers
- L2 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group
- L2 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The contents of the shea nut, the seed of *Butyrospermum parkii*
- L2 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Some African oil seeds
- L2 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI Two principles occurring in the fruit of the argan tree: the oil and glucoside
- L2 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The fat-containing seeds of dumori and djave
- L2 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN  
TI The Seed of Mimusops djave

=> d hist

(FILE 'HOME' ENTERED AT 08:23:05 ON 21 JUL 2006)

- L1 FILE 'BIOSIS' ENTERED AT 08:23:18 ON 21 JUL 2006  
1 S ("SHEA NUT" OR KARITE OR "AFRICAN BUTTER" OR SHETOULOU OR "SH
- L2 FILE 'CAPLUS' ENTERED AT 08:24:02 ON 21 JUL 2006  
11 S L1

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	39.65	40.73

STN INTERNATIONAL LOGOFF AT 08:24:57 ON 21 JUL 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAALC1654

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format  
NEWS 3 MAR 16 CASREACT coverage extended  
NEWS 4 MAR 20 MARPAT now updated daily  
NEWS 5 MAR 22 LWPI reloaded  
NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements  
NEWS 7 APR 02 JICST-EPLUS removed from database clusters and STN  
NEWS 8 APR 30 GENBANK reloaded and enhanced with Genome Project ID field  
NEWS 9 APR 30 CHEMCATS enhanced with 1.2 million new records  
NEWS 10 APR 30 CA/CAPLUS enhanced with 1870-1889 U.S. patent records  
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN  
NEWS 12 MAY 01 New CAS web site launched  
NEWS 13 MAY 08 CA/CAPLUS Indian patent publication number format defined  
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields  
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data  
NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload  
NEWS 17 MAY 21 CA/CAPLUS enhanced with additional kind codes for German patents  
NEWS 18 MAY 22 CA/CAPLUS enhanced with IPC reclassification in Japanese patents  
NEWS 19 JUN 27 CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers  
NEWS 20 JUN 29 STN Viewer now available  
NEWS 21 JUN 29 STN Express, Version 8.2, now available  
NEWS 22 JUL 02 LEMBASE coverage updated  
NEWS 23 JUL 02 LEMBASE coverage updated  
NEWS 24 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 25 JUL 02 CHEMCATS accession numbers revised  
NEWS 26 JUL 02 CA/CAPLUS enhanced with utility model patents from China  
  
NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.  
  
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NEWS LOGIN Welcome Banner and News Items  
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FILE 'HOME' ENTERED AT 13:10:27 ON 09 JUL 2007

=> file caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 13:10:43 ON 09 JUL 2007

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FILE LAST UPDATED: 8 Jul 2007 (20070708/ED)

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=> s (butyrospermum or shea) and saponin and pd<20020628  
99 BUTYROSPERMUM

973 SHEA  
16936 SAPONIN  
15772 SAPONINS  
21795 SAPONIN  
(SAPONIN OR SAPONINS)

22702044 PD<20020628  
(PD<20020628)

L1 8 (BUTYROSPERMUM OR SHEA) AND SAPONIN AND PD<20020628

=> d l1 1-8 ti

L1 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Phytochemical and antimicrobial studies on Butyrospermum paradoxum

L1 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Value of sheanut cake as a dietary ingredient for broiler chickens

L1 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor

L1 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Toxicological assessment of native and industrial fermented sheabuttercake  
in nutrition of broilers

L1 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI The determination of the structure of the tetracyclic triterpene alcohol,  
basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of  
the  $\beta$ -amyrenol group

L1 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI The contents of the shea nut, the seed of *Butyrospermum*  
*parkii*

L1 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Some African oil seeds

L1 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
TI The Seed of *Mimusops djave*

=> d 11 5-8 ibib

L1 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1951:29613 CAPLUS Full-text  
DOCUMENT NUMBER: 45:29613  
ORIGINAL REFERENCE NO.: 45:5129g-i,5130a-i,5131a-i,5132a-b  
TITLE: The determination of the structure of the tetracyclic  
triterpene alcohol, basseol. II. The dehydrogenation  
of basseol and of bassenol-triterpenes of the  
 $\beta$ -amyrenol group  
AUTHOR(S): Coelho, Fernando Pinto  
CORPORATE SOURCE: Univ. Coimbra, Port.  
SOURCE: Rev. faculdade cienc. Univ., Coimbra (1949),  
18, 71-140  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L1 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1943:24552 CAPLUS Full-text  
DOCUMENT NUMBER: 37:24552  
ORIGINAL REFERENCE NO.: 37:3961i,3962a-b  
TITLE: The contents of the shea nut, the seed of  
*Butyrospermum parkii*  
AUTHOR(S): Bauer, K. H.; Moll, H.  
SOURCE: Arch. Pharm. (1942), 280, 37-45  
From: Chem. Zentr. 1942, I, 3120.  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L1 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
DOCUMENT NUMBER: 30:4760  
ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
TITLE: Some African oil seeds  
AUTHOR(S): Anon.  
SOURCE: Bulletin of the Imperial Institute, London (1935), 33, 271-93  
CODEN: BUIIAD; ISSN: 0366-4279  
DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

L1 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1911:3241 CAPLUS Full-text

DOCUMENT NUMBER: 5:3241

ORIGINAL REFERENCE NO.: 5:594g-h

TITLE: The Seed of Mimusops djave

AUTHOR(S): Fickendey, E.

SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4

CODEN: SSZTAW; ISSN: 0371-3296

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

=> file biosis

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

16.89

17.10

FILE 'BIOSIS' ENTERED AT 13:12:41 ON 09 JUL 2007

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FILE COVERS 1926 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT

FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 4 July 2007 (20070704/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

=> s l1

53 BUTYROSPERMUM

301 SHEA

1 SHEAS

302 SHEA

(SHEA OR SHEAS)

7212 SAPONIN

4946 SAPONINS

10363 SAPONIN

(SAPONIN OR SAPONINS)

14978589 PD<20020628

(PD<20020628)

L2 0 (BUTYROSPERMUM OR SHEA) AND SAPONIN AND PD<20020628

=> dhist full

DHIST IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> d hist full

(FILE 'HOME' ENTERED AT 13:10:27 ON 09 JUL 2007)

FILE 'CAPLUS' ENTERED AT 13:10:43 ON 09 JUL 2007

L1 8 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SHEA) AND SAPONIN AND PD<20020628

D L1 1-8 TI

D L1 5-8 IBIB

FILE 'BIOSIS' ENTERED AT 13:12:41 ON 09 JUL 2007  
L2 0 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SHEA) AND SAPONIN AND  
PD<20020628

FILE HOME

FILE CAPLUS

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FILE LAST UPDATED: 8 Jul 2007 (20070708/ED)

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FILE BIOSIS  
FILE COVERS 1926 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

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=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.89	17.99

STN INTERNATIONAL LOGOFF AT 13:13:15 ON 09 JUL 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAALC1654

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 2 JUL 02 LMDLINE coverage updated  
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 4 JUL 02 CHEMCATS accession numbers revised  
NEWS 5 JUL 02 CA/Caplus enhanced with utility model patents from China  
NEWS 6 JUL 16 Caplus enhanced with French and German abstracts  
NEWS 7 JUL 18 CA/Caplus patent coverage enhanced  
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification  
NEWS 9 JUL 30 USGENE now available on STN  
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
NEWS 11 AUG 06 BEILSTEIN updated with new compounds  
NEWS 12 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 13 AUG 13 CA/Caplus enhanced with additional kind codes for granted patents  
NEWS 14 AUG 20 CA/Caplus enhanced with CAS indexing in pre-1907 records  
NEWS 15 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB  
NEWS 16 AUG 27 USPATOLD now available on STN  
NEWS 17 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data  
NEWS 18 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index  
NEWS 19 SEP 13 FORIS renamed to SOFIS  
NEWS 20 SEP 13 INPADOCDB enhanced with monthly SDI frequency  
NEWS 21 SEP 17 CA/Caplus enhanced with printed CA page images from 1967-1998  
NEWS 22 SEP 17 Caplus coverage extended to include traditional medicine patents  
NEWS 23 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements  
NEWS 24 OCT 02 CA/Caplus enhanced with pre-1907 records from Chemisches Zentralblatt  
  
NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.  
  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 13:31:01 ON 03 OCT 2007

=> file biosis  
COST IN U.S. DOLLARS

SINCE FILE TOTAL



FULL ESTIMATED COST

ENTRY      SESSION  
0.21      0.21

FILE 'BIOSIS' ENTERED AT 13:31:17 ON 03 OCT 2007  
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CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 26 September 2007 (20070926/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

=> s ((Bassia or butryospermum or vitellaria or pentadosmis) and (paradox or paradoxa or paradoxum or parkii or butyracea)) or (shea or African or Africa)(s)(tree or butter or nut) or sheanut or sheatree) and @pd<"20010630"  
NUMERIC VALUE NOT VALID "20010630"

Numeric values may contain 1-8 significant figures. If range notation is used, both the beginning and the end of the range must be specified, e.g., '250-300/MW'. Expressions such as '250-/MW' are not allowed. To search for values above or below a given number, use the >, =>, <, or <= operators, e.g., 'MW => 250'. Text terms cannot be used in numeric expressions. If you specify a unit, it must be dimensionally correct for that field code. To see the unit designations for field codes in the current file, enter "DISPLAY UNIT ALL" at an arrow prompt (=>).

=> s ((Bassia or butryospermum or vitellaria or pentadosmis) and (paradox or paradoxa or paradoxum or parkii or butyracea)) or (shea or African or Africa)(s)(tree or butter or nut) or sheanut or sheatree) and pd<"20010630"

253 BASSIA  
2 BASSIAS  
255 BASSIA  
    (BASSIA OR BASSIAS)  
    1 BUTRYOSPERMUM  
604 VITELLARIA  
    1 VITELLARIAS  
604 VITELLARIA  
    (VITELLARIA OR VITELLARIAS)  
    0 PENTADOSMIS  
5537 PARADOX  
425 PARADOXES  
5899 PARADOX  
    (PARADOX OR PARADOXES)  
1936 PARADOXA  
316 PARADOXUM  
47 PARKII  
91 BUTYRACEA  
304 SHEA  
    1 SHEAS  
305 SHEA  
    (SHEA OR SHEAS)  
91439 AFRICAN  
2748 AFRICANS  
92667 AFRICAN  
    (AFRICAN OR AFRICANS)  
141068 AFRICA

```

26 AFRICAS
141088 AFRICA
      (AFRICA OR AFRICAS)
121465 TREE
106861 TREES
186896 TREE
      (TREE OR TREES)
7976 BUTTER
344 BUTTERS
8055 BUTTER
      (BUTTER OR BUTTERS)
8530 NUT
4580 NUTS
11532 NUT
      (NUT OR NUTS)
1847 (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT)
18 SHEANUT
1 SHEANUTS
18 SHEANUT
      (SHEANUT OR SHEANUTS)
0 SHEATREE
14419937 PD<"20010630"
      (PD<20010630)
L1 1166 ((BASSIA OR BUTRYOSPERMUM OR VITELLARIA OR PENTADOSMIS) AND
      (PARADOX OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)) OR
      (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT) OR SHEANUT
      OR SHEATREE) AND PD<"20010630"

=> s (((Bassia or butryospermum or vitellaria or pentadosmis) (s) (paradox or
paradoxa or paradoxum or parkii or butyracea)) or (shea or African or
Africa) (s) (tree or butter or nut) or sheanut or sheatree) and pd<"20010630"
253 BASSIA
2 BASSIAS
255 BASSIA
      (BASSIA OR BASSIAS)
1 BUTRYOSPERMUM
604 VITELLARIA
1 VITELLARIAS
604 VITELLARIA
      (VITELLARIA OR VITELLARIAS)
0 PENTADOSMIS
5537 PARADOX
425 PARADOXES
5899 PARADOX
      (PARADOX OR PARADOXES)
1936 PARADOXA
316 PARADOXUM
47 PARKII
91 BUTYRACEA
83 (BASSIA OR BUTRYOSPERMUM OR VITELLARIA OR PENTADOSMIS) (S) (PARADO
X OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)
304 SHEA
1 SHEAS
305 SHEA
      (SHEA OR SHEAS)
91439 AFRICAN
2748 AFRICANS
92667 AFRICAN
      (AFRICAN OR AFRICANS)
141068 AFRICA

```

26 AFRICAS  
 141088 AFRICA  
     (AFRICA OR AFRICAS)  
 121465 TREE  
 106861 TREES  
 186896 TREE  
     (TREE OR TREES)  
 7976 BUTTER  
 344 BUTTERS  
 8055 BUTTER  
     (BUTTER OR BUTTERS)  
 8530 NUT  
 4580 NUTS  
 11532 NUT  
     (NUT OR NUTS)  
 1847 (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT)  
 18 SHEANUT  
 1 SHEANUTS  
 18 SHEANUT  
     (SHEANUT OR SHEANUTS)  
 0 SHEATREE  
 14419937 PD<"20010630"  
     (PD<20010630)  
 L2 1166 (((BASSIA OR BUTYROSPERMUM OR VITELLARIA OR PENTADOSMIS) (S) (PARADOX OR PARADOXA OR PARADOXUM OR PARKII OR BUTYRACEA)) OR (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT) OR SHEANUT OR SHEATREE) AND PD<"20010630"  
  
 => s l1 and (saponin or saponins or "bassic acid" or parkeol)  
     7272 SAPONIN  
     4987 SAPONINS  
     10434 SAPONIN  
         (SAPONIN OR SAPONINS)  
     4987 SAPONINS  
     13 "BASSIC"  
     1494679 "ACID"  
     411424 "ACIDS"  
     1674132 "ACID"  
         ("ACID" OR "ACIDS")  
     11 "BASSIC ACID"  
         ("BASSIC" (W) "ACID")  
     30 PARKEOL  
 L3 7 L1 AND (SAPONIN OR SAPONINS OR "BASSIC ACID" OR PARKEOL)  
  
 => d l3 1-7 ti  
  
 L3 ANSWER 1 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Value of sheanut cake as a dietary ingredient for broiler chickens.  
  
 L3 ANSWER 2 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Influence of foliage from African multipurpose trees on activity of rumen protozoa and bacteria.  
  
 L3 ANSWER 3 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
 TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor.  
  
 L3 ANSWER 4 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN

TI WOOD FLUORESCENCE OF INDIGENOUS SOUTH AFRICAN TREES.

L3 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
TI WOOD FLUORESCENCE OF INDIGENOUS SOUTH AFRICAN TREES.

L3 ANSWER 6 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
TI CHARACTERIZATION OF TRI TERPENE ALCOHOLS OF SEED OILS FROM SOME SPECIES OF  
THEACEAE PHYTOLACCACEAE AND SAPOTACEAE.

L3 ANSWER 7 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
TI THE NONGLYCERIDE SAPONIFIABLES OF SHEA BUTTER.

=> d l3 6 and 7 ibib  
'AND' IS NOT A VALID FORMAT FOR FILE 'BIOSIS'

The following are valid formats:

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ABS ----- AB  
ALL ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED, AB,  
              NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN  
BIB ----- AN, DN, TI, AU, CS, PI, SO, DT, FS, LA, OS, ED  
CBIB ----- AN, compressed bibliographic information  
DALL ----- ALL, delimited for post-processing  
IABS ----- ABS, with text label  
IALL ----- ALL, indented with text labels  
IBIB ----- BIB, indented with text labels  
IIND ----- IND, indented with text labels  
IND ----- NCL, CC, IT (CT, ST), GT, ORGN, RN, CN, GEN  
HIT ----- all fields containing hit search terms  
HITIND ----- IND  
KWIC ----- Hit terms plus 20 words on either side  
OCC ----- number of occurrences of hit terms and fields  
              in which they occur

Hit terms will be highlighted in all available fields except MY and  
PY.

To display a particular field or fields, enter the display field  
codes. For a list of display field codes, enter 'HELP DFIELDS'  
at an arrow prompt (=>). Examples of formats include: 'BIB';  
'AB'; 'SO'. You may specify the format fields in any order,  
and the information will be displayed in the same order as the  
format specification.

The same formats (except for HIT, HITIND, KWIC, and OCC) may be  
used with the DISPLAY ACC command to display the record for a  
specified Accession Number.  
ENTER DISPLAY FORMAT (BIB):ibib

L3 ANSWER 6 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
ACCESSION NUMBER: 1980:274902 BIOSIS Full-text  
DOCUMENT NUMBER: PREV198070067398; BA70:67398  
TITLE: CHARACTERIZATION OF TRI TERPENE ALCOHOLS OF SEED OILS FROM  
SOME SPECIES OF THEACEAE PHYTOLACCACEAE AND SAPOTACEAE.  
AUTHOR(S): ITOH T [Reprint author]; UETSUKI T; TAMURA T; MATSUMOTO T  
CORPORATE SOURCE: COLL SCI TECHNOL, NIHON UNIV, 1-8 KANDA SURUGADAI, CHIYODA,  
TOKYO 101, JPN

SOURCE: Lipids, (1989) Vol. 15, No. 6, pp. 407-411.  
CODEN: LPDSAP. ISSN: 0024-4201.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: ENGLISH

L3 ANSWER 7 OF 7 BIOSIS COPYRIGHT (c) 2007 The Thomson Corporation on STN  
ACCESSION NUMBER: 1978:176927 BIOSIS Full-text  
DOCUMENT NUMBER: PREV197865063927; BA65:63927  
TITLE: THE NONGLYCERIDE SAPONIFIABLES OF SHEA  
BUTTER.  
AUTHOR(S): PEERS K E [Reprint author]  
CORPORATE SOURCE: CHEM DIV, AGRIC RES COUNC FOOD RES INST, COLNEY LANE,  
NORWICH NR4 7UA, ENGL, UK  
SOURCE: Journal of the Science of Food and Agriculture, (1977) Vol. 28, No. 11, pp. 1000-1009.  
CODEN: JSFAAE. ISSN: 0022-5142.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: ENGLISH

=> file caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
8.15	8.36

FILE 'CAPLUS' ENTERED AT 13:34:28 ON 03 OCT 2007  
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FILE COVERS 1907 - 3 Oct 2007 VOL 147 ISS 15  
FILE LAST UPDATED: 2 Oct 2007 (20071002/ED)

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=> s 13  
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DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

173 BASSIA  
0 BUTRYOSPERMUM  
102 VITELLARIA  
1 VITELLARIAS  
103 VITELLARIA  
(VITELLARIA OR VITELLARIAS)

0 PENTADOSMIS  
 5251 PARADOX  
 622 PARADOXES  
 5738 PARADOX  
     (PARADOX OR PARADOXES)  
 688 PARADOXA  
 50 PARADOXUM  
 92 PARKII  
 112 BUTYRACEA  
 1016 SHEA  
 25676 AFRICAN  
 933 AFRICANS  
 26096 AFRICAN  
     (AFRICAN OR AFRICANS)  
 23721 AFRICA  
 3 AFRICAS  
 23723 AFRICA  
     (AFRICA OR AFRICAS)  
 63486 TREE  
 45454 TREES  
 91391 TREE  
     (TREE OR TREES)  
 22681 BUTTER  
 935 BUTTERS  
 22783 BUTTER  
     (BUTTER OR BUTTERS)  
 13057 NUT  
 6595 NUTS  
 17123 NUT  
     (NUT OR NUTS)  
 1469 (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR BUTTER OR NUT)  
 11 SHEANUT  
 0 SHEATREE  
 21762413 PD<"20010630"  
     (PD<20010630)  
 17237 SAPONIN  
 16122 SAPONINS  
 22234 SAPONIN  
     (SAPONIN OR SAPONINS)  
 16122 SAPONINS  
 26 "BASSIC"  
 4453496 "ACID"  
 1594632 "ACIDS"  
 4956675 "ACID"  
     ("ACID" OR "ACIDS")  
 26 "BASSIC ACID"  
     ("BASSIC" (W) "ACID")  
 71 PARKEOL  
 1 PARKEOLS  
 71 PARKEOL  
     (PARKEOL OR PARKEOLS)  
 L4 21 L1 AND (SAPONIN OR SAPONINS OR "BASSIC ACID" OR PARKEOL)

=> d 14 1-21 ti

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Pharmaceutical composition containing extracts of *Butyrospermum parkii* and  
 the use as medicament or dietary supplement  
 L4 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN

TI Value of sheanut cake as a dietary ingredient for broiler chickens

L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Influence of foliage from African multipurpose trees on activity of rumen protozoa and bacteria

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Biological activity of saponins from two *Dracaena* species

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Biochemical and histological alterations in the liver of the broiler after ingestion of vegetable saponins and effects of dietary supplementation with adsorbents or methyl donor

L4 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Toxicological assessment of native and industrial fermented sheabuttercake in nutrition of broilers

L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Biologically active saponins from two *Dracaena* species.

L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Triterpenic saponins from *nauclea diderrichii*.

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Search for molluscicidal and antifungal saponins from tropical plants.

L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Comparison of lipid compositions in Shea butter and *Pentadesma* butter

L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Characterization of triterpene alcohols of seed oils from some species of Theaceae, Phytolaccaceae and Sapotaceae

L4 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The flavonoids of the leaves of *Holarrhena floribunda*; isolation of a flavonoid identified as isoquercitroside

L4 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The chemistry of the triterpenes. XVI. The action of hydrogen chloride on butyrospermol

L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group

L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Constituents of shea

L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The contents of the shea nut, the seed of *Butyrospermum parkii*

L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Unsaponifiable constituents of shea butter

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Sapogenins. IX. Occurrence and constitution of basic  
 acid

L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Sapogenins. V. Basic acid

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Some African oil seeds

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI The Seed of Mimosa djave

=> d 1, 4, 5, 7-11, 15-21 ibib

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2001:50499 CAPLUS Full-text  
 DOCUMENT NUMBER: 134:120921  
 TITLE: Pharmaceutical composition containing extracts of  
 Butyrospermum parkii and the use as medicament or  
 dietary supplement  
 INVENTOR(S): Weidner, Morten Sloth  
 PATENT ASSIGNEE(S): Astion Development Aps, Den.  
 SOURCE: PCT Int. Appl., 39 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001003712	A1	20010118	WO 2000-DK383	20000710 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2378396	A1	20010118	CA 2000-2378396	20000710 <--
EP 1200106	A1	20020502	EP 2000-943697	20000710
EP 1200106	B1	20030507		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003504340	T	20030204	JP 2001-508991	20000710
AT 239490	T	20030515	AT 2000-943697	20000710
PT 1200106	T	20030930	PT 2000-943697	20000710
EP 1354595	A1	20031022	EP 2003-76393	20000710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 517077	A	20031128	NZ 2000-517077	20000710
ES 2198324	T3	20040201	ES 2000-943697	20000710
AU 784718	B2	20060601	AU 2000-58066	20000710
HK 1046502	A1	20030919	HK 2002-107996	20021102
US 2005031709	A1	20050210	US 2004-861884	20040607
US 2007003645	A1	20070104	US 2006-519002	20060912



PRIORITY APPLN. INFO.:

DK 1999-1003	A	19990709
DK 1999-1323	A	19990916
US 1999-154651P	P	19990920
DK 2000-434	A	20000316
US 2000-190919P	P	20000321
EP 2000-943697	A3	20000710
US 2000-613468	A3	20000710
WO 2000-DK383	W	20000710

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:255839 CAPLUS Full-text  
 DOCUMENT NUMBER: 126:311799  
 TITLE: Biological activity of saponins from two  
 Dracaena species  
 AUTHOR(S): Okunji, C. O.; Iwu, M. M.; Jackson, J. E.; Tally, J. D.  
 CORPORATE SOURCE: Division of Experimental Therapeutics, Walter Reed  
 Army Institute of Research, Washington, DC,  
 20307-5100, USA  
 SOURCE: Advances in Experimental Medicine and Biology ( 1996), 404(Saponins Used in Traditional and  
 Modern Medicine), 415-428  
 CODEN: AEMBAP; ISSN: 0065-2598  
 PUBLISHER: Plenum  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997:150965 CAPLUS Full-text  
 DOCUMENT NUMBER: 126:316899  
 TITLE: Biochemical and histological alterations in the liver  
 of the broiler after ingestion of vegetable  
 saponins and effects of dietary  
 supplementation with adsorbents or methyl donor  
 Annongu, A. A.; Ter Meulen, U.; Atteh, J. O.; Chinnah, T.  
 AUTHOR(S):  
 CORPORATE SOURCE: Institut Tierphysiologie Tierernaehrung, Universitaet  
 Goettingen, Goettingen, D-37077, Germany  
 SOURCE: Archiv fuer Gefluegelkunde (1996), 60(6),  
 267-272  
 CODEN: AGEFAB; ISSN: 0003-9098  
 PUBLISHER: Ulmer  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1995:919220 CAPLUS Full-text  
 TITLE: Biologically active saponins from two  
 dracaena species.  
 AUTHOR(S): Okunji, C. O.; Jackson, J. E.; Tally, J. D.; Iwu, M. M.  
 CORPORATE SOURCE: Division Experimental Therapeutics, Walter Reed Army  
 Institute Research, Washington, DC, 20307-5100, USA  
 SOURCE: Book of Abstracts, 210th ACS National Meeting,  
 Chicago, IL, August 20-24 (1995), Issue Pt.  
 1, AGFD-235. American Chemical Society: Washington,  
 D. C.  
 CODEN: 61XGAC

DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1995:919119 CAPLUS Full-text  
TITLE: Triterpenic saponins from nauclea  
diderrichii.  
AUTHOR(S): Ollivier, E.; Gasquet, M.; Delnas, F.; Balansard, G.  
CORPORATE SOURCE: Pharmacognosy, Faculty Pharmacy, Marseille, 13385, Fr.  
SOURCE: Book of Abstracts, 210th ACS National Meeting,  
Chicago, IL, August 20-24 (1995), Issue Pt.  
1, AGFD-124. American Chemical Society: Washington,  
D. C.  
CODEN: 61XGAC  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1995:919081 CAPLUS Full-text  
TITLE: Search for molluscicidal and antifungal  
saponins from tropical plants.  
AUTHOR(S): Hostettmann, K.  
CORPORATE SOURCE: Institut de Pharmacognosie et Phytochimie, Universite  
de Lausanne, Lausanne, CH-1015, Switz.  
SOURCE: Book of Abstracts, 210th ACS National Meeting,  
Chicago, IL, August 20-24 (1995), Issue Pt.  
1, AGFD-086. American Chemical Society: Washington,  
D. C.  
CODEN: 61XGAC  
DOCUMENT TYPE: Conference; Meeting Abstract  
LANGUAGE: English

L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1995:797935 CAPLUS Full-text  
DOCUMENT NUMBER: 123:284113  
TITLE: Comparison of lipid compositions in Shea  
butter and Pentadesma butter  
AUTHOR(S): Dencausse, Laurent; Ntsourankoua, Herve; Artaud,  
Jacques; Clamou, Jean-Luc  
CORPORATE SOURCE: Laboratoire d'Analyse et Valorisation des  
Biomolecules, IUT, Marseille, 13388/13, Fr.  
SOURCE: Oleagineux, Corps Gras, Lipides (1995),  
2(2), 143-7  
CODEN: OCLOEX; ISSN: 1258-8210  
PUBLISHER: Libbey Eurotext  
DOCUMENT TYPE: Journal  
LANGUAGE: French

L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1980:441613 CAPLUS Full-text  
DOCUMENT NUMBER: 93:41613  
TITLE: Characterization of triterpene alcohols of seed oils  
from some species of Theaceae, Phytolaccaceae and  
Sapotaceae  
AUTHOR(S): Itoh, Toshihiro; Uetsuki, Toshimitsu; Tamura,  
Toshitake; Matsumoto, Taro  
CORPORATE SOURCE: Coll. Sci. Technol., Nihon Univ., Tokyo, 101, Japan  
SOURCE: Lipids (1980), 15(6), 407-11  
CODEN: LPDSAP; ISSN: 0024-4201  
DOCUMENT TYPE: Journal

LANGUAGE: English

L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1950:11456 CAPLUS Full-text  
DOCUMENT NUMBER: 44:11456  
ORIGINAL REFERENCE NO.: 44:2259d  
TITLE: Constituents of shea  
AUTHOR(S): Pradain, J.  
SOURCE: Ann. nutrition et aliment. (1949), 3, 459-62  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1943:24552 CAPLUS Full-text  
DOCUMENT NUMBER: 37:24552  
ORIGINAL REFERENCE NO.: 37:3961i,3962a-b  
TITLE: The contents of the shea nut, the  
seed of Butyrospermum parkii  
AUTHOR(S): Bauer, K. H.; Moll, H.  
SOURCE: Arch. Pharm. (1942), 280, 37-45  
From: Chem. Zentr. 1942, I, 3120.  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1941:14797 CAPLUS Full-text  
DOCUMENT NUMBER: 35:14797  
ORIGINAL REFERENCE NO.: 35:2350i  
TITLE: Unsaponifiable constituents of shea  
butter  
AUTHOR(S): Bauer, K. H.; Moll, H.  
SOURCE: Fette und Seifen (1939), 46, 560-3  
CODEN: FTSEAK; ISSN: 0367-3278  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1940:43305 CAPLUS Full-text  
DOCUMENT NUMBER: 34:43305  
ORIGINAL REFERENCE NO.: 34:6636i,6637a-i,6638a-b  
TITLE: Sapogenins. IX. Occurrence and constitution of  
basic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. K.  
SOURCE: Journal of the Chemical Society (1940)  
713-30  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1939:54210 CAPLUS Full-text  
DOCUMENT NUMBER: 33:54210  
ORIGINAL REFERENCE NO.: 33:7809a-h  
TITLE: Sapogenins. V. Basic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. R.; Ware, Lancelot  
L.  
SOURCE: Journal of the Chemical Society (1939)  
1124-9  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
DOCUMENT NUMBER: 30:4760  
ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
TITLE: Some African oil seeds  
AUTHOR(S): Anon.  
SOURCE: Bulletin of the Imperial Institute, London ( 1935), 33, 271-93  
CODEN: BUIIAD; ISSN: 0366-4279  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1911:3241 CAPLUS Full-text  
DOCUMENT NUMBER: 5:3241  
ORIGINAL REFERENCE NO.: 5:594g-h  
TITLE: The Seed of Mimusops djave  
AUTHOR(S): Fickendey, E.  
SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4  
CODEN: SSZTAW; ISSN: 0371-3296  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

=> d hist full

(FILE 'HOME' ENTERED AT 13:31:01 ON 03 OCT 2007)

FILE 'BIOSIS' ENTERED AT 13:31:17 ON 03 OCT 2007

L1 1166 SEA ABB=ON PLU=ON (((BASSIA OR BUTRYOSPERMUM OR VITELLARIA  
OR PENTADOSMIS) AND (PARADOX OR PARADOXA OR PARADOXUM OR  
PARKII OR BUTYRACEA)) OR (SHEA OR AFRICAN OR AFRICA) (S) (TREE  
OR BUTTER OR NUT) OR SHEANUT OR SHEATREE) AND PD<"20010630"  
L2 1166 SEA ABB=ON PLU=ON (((BASSIA OR BUTRYOSPERMUM OR VITELLARIA  
OR PENTADOSMIS) (S) (PARADOX OR PARADOXA OR PARADOXUM OR PARKII  
OR BUTYRACEA)) OR (SHEA OR AFRICAN OR AFRICA) (S) (TREE OR  
BUTTER OR NUT) OR SHEANUT OR SHEATREE) AND PD<"20010630"  
L3 7 SEA ABB=ON PLU=ON L1 AND (SAPONIN OR SAPONINS OR "BASSIC  
ACID" OR PARKEOL)  
D L3 1-7 TI  
D L3 6 AND 7 IBIB

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L4 21 SEA ABB=ON PLU=ON L1 AND (SAPONIN OR SAPONINS OR "BASSIC  
ACID" OR PARKEOL)  
D L4 1-21 TI  
D 1, 4, 5, 7-11, 15-21 IBIB

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           patents
NEWS 5 AUG 20 CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS 6 AUG 27 Full-text patent databases enhanced with predefined
           patent family display formats from INPADOCDB
NEWS 7 AUG 27 USPATOLD now available on STN
NEWS 8 AUG 28 CAS REGISTRY enhanced with additional experimental
           spectral property data
NEWS 9 SEP 07 STN AnaVist, Version 2.0, now available with Derwent
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World Patents Index

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NEWS 19 NOV 30 ICSD reloaded with enhancements

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NEWS 23 DEC 17 IMSDRUGCONF removed from database clusters and STN

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NEWS 26 DEC 17 MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary

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NEWS 28 DEC 17 STN Viewer enhanced with full-text patent content from USPATOLD

NEWS 29 JAN 02 STN pricing information for 2008 now available

NEWS 30 JAN 16 CAS patent coverage enhanced to include exemplified prophetic substances

NEWS 31 JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats

NEWS 32 JAN 28 MARPAT searching enhanced

NEWS 33 JAN 28 USGENE timeliness enhanced

NEWS 34 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment

NEWS 35 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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SINCE FILE	TOTAL
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FILE 'BIOSIS' ENTERED AT 21:31:15 ON 28 JAN 2008  
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FILE COVERS 1926 TO DATE.  
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55 BUTYROSPERMUM
2418 SAPOTACEAE
8055 "BUTTER"
350 "BUTTERS"
8134 "BUTTER"
      ("BUTTER" OR "BUTTERS")
123867 "TREE"
108587 "TREES"
190167 "TREE"
      ("TREE" OR "TREES")
21 "BUTTER TREE"
      ("BUTTER"(W)"TREE")
257 "BASSIA"
2 "BASSIAS"
259 "BASSIA"
      ("BASSIA" OR "BASSIAS")
47 "PARKII"
1 "BASSIA PARKII"
      ("BASSIA"(W)"PARKII")
313 SHEA
1 SHEAS
314 SHEA
      (SHEA OR SHEAS)
18 SHEANUT
1 SHEANUTS
18 SHEANUT
      (SHEANUT OR SHEANUTS)
617 VITELLARIA
1 VITELLARIAS
617 VITELLARIA
      (VITELLARIA OR VITELLARIAS)
313 "SHEA"
1 "SHEAS"
314 "SHEA"
      ("SHEA" OR "SHEAS")
8055 "BUTTER"
350 "BUTTERS"
8134 "BUTTER"
      ("BUTTER" OR "BUTTERS")
73 "SHEA BUTTER"
      ("SHEA"(W)"BUTTER")
1 BAMBUK
1 GALAM
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1 GALAMS
2 GALAM
  (GALAM OR GALAMS)
17 MOWRAH
7387 SAPONIN
5077 SAPONINS
10582 SAPONIN
  (SAPONIN OR SAPONINS)
5077 SAPONINS
13 "BASSIC"
1512843 "ACID"
416088 "ACIDS"
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  ("ACID" OR "ACIDS")
11 "BASSIC ACID"
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  GALAM OR MOWRAH) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND
  PD<20020628

=> s (Butyrospermum or Sapotaceae or "Butter Tree" or "bassia parkii" or Shea or
sheanut or Vitellaria or "shea butter" or bambuk or galam) and (saponin or saponins
or "bassic acid") and pd<20020628
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2418 SAPOTACEAE
8055 "BUTTER"
350 "BUTTERS"
8134 "BUTTER"
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123867 "TREE"
108587 "TREES"
190167 "TREE"
  ("TREE" OR "TREES")
21 "BUTTER TREE"
  ("BUTTER" (W) "TREE")
257 "BASSIA"
2 "BASSIAS"
259 "BASSIA"
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47 "PARKII"
1 "BASSIA PARKII"
  ("BASSIA" (W) "PARKII")
313 SHEA
1 SHEAS
314 SHEA
  (SHEA OR SHEAS)
18 SHEANUT
1 SHEANUTS
18 SHEANUT
  (SHEANUT OR SHEANUTS)
617 VITELLARIA
1 VITELLARIAS
617 VITELLARIA
  (VITELLARIA OR VITELLARIAS)
313 "SHEA"
1 "SHEAS"
314 "SHEA"

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("SHEA" OR "SHEAS")  
 8055 "BUTTER"  
 350 "BUTTERS"  
 8134 "BUTTER"  
 ("BUTTER" OR "BUTTERS")  
 73 "SHEA BUTTER"  
 ("SHEA"(W)"BUTTER")  
 1 BAMBUK  
 1 GALAM  
 1 GALAMS  
 2 GALAM  
 (GALAM OR GALAMS)  
 7387 SAPONIN  
 5077 SAPONINS  
 10582 SAPONIN  
 (SAPONIN OR SAPONINS)  
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 13 "BASSIC"  
 1512843 "ACID"  
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 ("ACID" OR "ACIDS")  
 11 "BASSIC ACID"  
 ("BASSIC"(W)"ACID")  
 14978600 PD<20020628  
 (PD<20020628)  
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 OR SHEA OR SHEANUT OR VITELLARIA OR "SHEA BUTTER" OR BAMBUK OR  
 GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND PD<2002062  
 8

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L2 ANSWER 1 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Secondary metabolites from *Argania spinosa* (L.) Skeels.  
 L2 ANSWER 2 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Unnurtured and untapped super sweet nonsacchariferous plant species in  
 India.  
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 TI Analgesic and antiinflammatory activity of *Argania spinosa*  
*saponins*.  
 L2 ANSWER 4 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Acute and chronic toxicity of *saponins* of *Argania spinosa*.  
 L2 ANSWER 5 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Value of sheanut cake as a dietary ingredient for broiler  
 chickens.  
 L2 ANSWER 6 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Biochemical and histological alterations in the liver of the broiler after  
 ingestion of vegetable *saponins* and effects of dietary  
 supplementation with adsorbents or methyl donor.  
 L2 ANSWER 7 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 TI Triterpenoid *saponins* from *Mimusops elengi*.  
 L2 ANSWER 8 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN

T1 Saponins from three species of Mimusops.  
 L2 ANSWER 9 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
 T1 Triterpenoid saponins of Mimusops elengi.  
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 T1 Toxicological evaluation of mowrah (Madhuca latifolia Macbride) seed meal.  
 L2 ANSWER 11 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 T1 Novel triterpenoid saponins from Mimusops elengi.  
 L2 ANSWER 12 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 T1 Bioactive saponins from Mimusops elengi.  
 L2 ANSWER 13 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 T1 Triterpenoid saponins from the root of Sideroxylon  
 foetidissimum.  
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 T1 Triterpenoid saponins from Madhuca butyracea.  
 L2 ANSWER 15 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 T1 A new triterpenoid saponin from Mimusops hexandra.  
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 T1 Triterpenoid saponins from the root of Sideroxylon cubense.  
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 T1 Cytotoxic activity of a new saponin from Sideroxylon cubense.  
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 T1 TRITERPENOIDAL SAPONINS FROM MADHUCA-BUTYRACEA.  
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 T1 ANALYSIS OF THE TESTALESS SEEDS OF CHRYSOPHYLLUM-ALBIDUM NUTRITIONAL  
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 T1 PROBABLE MECHANISM OF HYPOGLYCEMIA ACTIVITY OF BASIC  
 ACID A NATURAL PRODUCT ISOLATED FROM BUMELIA-SARTORUM.  
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TI SAPONINS FROM TRIDESMOSTEMON-CLAESSENSI.

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TI ORAL TOXICITY OF MADHUCA-BUTYRACEA MACB. SAPONINS TO ALBINO  
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TI INADEQUACY OF ISOLATED MOWRIN AS A STANDARD FOR COLORIMETRIC ESTIMATION OF  
MAHUA BASSIA-LATIFOLIA SEED CAKE SAPONINS.

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TI EFFECT OF SAPONINS ON USTILOPORE GERMINATION OF SMUT.

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TI A NEW STEROIDAL SAPONIN FROM THE ROOTS OF MIMUSOPS-ELENGI.

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TI TOXICITY OF SEED EXTRACTS OF PHULWARA MADHUCA-BUTYRACEA MACB. ON THE  
HOUSEFLY MUSCA-DOMESTICA L. AND PULSE BEETLE CALLOSOPRUCHUS-CHINENSIS.

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TI CONFIGURATION AND CONFORMATION OF THE ARABINOSE MOIETY IN PLATYCODINS

SAPONINS ISOLATED FROM PLATYCODON-GRANDIFLORUM AND MI  
 SAPONINS FROM MADHUCA-LONGIFOLIA BASED ON CARBON-13 NMR  
 SPECTROSCOPIC AND PROTON NMR SPECTROSCOPIC EVIDENCE TOTAL STRUCTURES OF  
 THE SAPONINS.

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 TI EPI PROTO BASSIC-ACID FROM MADHUCA-BUTYRACEA LEAVES.
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 TI CONSTITUENTS OF MIMUSOPS-LITTORALIS SEEDS.
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 TI ANTI INFLAMMATORY EFFECTS OF MI-SAPONIN.
- L2 ANSWER 40 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 TI EFFECTS OF CRUDE DRUGS ON CONGESTIVE EDEMA.
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 TI PROTO BASSIC-ACID FROM MIMUSOPS-LITTORALIS BARK.
- L2 ANSWER 42 OF 61 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on  
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 TI SAPONIN AND SAPOGENOL PART 24 THE STRUCTURE OF MI-  
 SAPONIN C A BIS DESMOSIDE OF PROTO BASSIC-ACID  
 FROM THE SEED KERNELS OF MADHUCA-LONGIFOLIA.
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 TI STERIOD AND TRI TERPENOID SAPONINS POSSIBLE SPERMICIDAL AGENTS.
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 TI SAPOGENINS AND OTHER CONSTITUENTS OF THE BARK OF MIMUSOPS-LITTORALIS.
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 TI SPERMICIDAL POTENTIAL OF SAPONINS ISOLATED FROM INDIAN MEDICINAL  
 PLANTS.
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 TI TRI TERPENOIDS OF MIMUSOPS-LITTORALIS.
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 TI BIOLOGICAL ACTIVE PRINCIPLES OF THE CRUDE DRUGS PART 2 ANTI ULCEROGENIC  
 AND ANTI INFLAMMATORY ACTIONS OF THE CRUDE DRUGS CONTAINED SAPONIN  
 .
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 TI SAPONIN AND SAPOGENOL PART 12 MI SAPONIN A AND MI  
 SAPONIN B 2 MAJOR BIS DESMOSIDES FROM THE SEED KERNELS OF  
 MADHUCA-LONGIFOLIA.

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TI SAPONIN AND SAPOGENOL PART 8 PHOTOCHEMICAL CLEAVAGE OF GLYCOSIDE  
LINKAGE IN SAPONIN PHOTOLYSIS OF SOME SAPONINS AND  
THEIR STRUCTURAL FEATURES.

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TI SOIL BACTERIAL HYDROLYSIS LEADING TO GENUINE AGLYCONE PART 7 STRUCTURE OF  
A GENUINE SAPOGENOL PROTO BASSIC-ACID AND A  
PROSAPOGENOL OF SEED KERNELS OF MADHUCA-LONGIFOLIA.

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TI TRI TERPENOIDS OF ACHRAS-SAPOTA SAPOTACEAE.

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TI SAPONINS OF THE SEEDS OF BASSIA-LATIFOLIA-D.

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TI TERMITE RESISTANCE OF OLD WOOD USED IN TEMPLES FROM THE MAYAN AREA DUE TO  
SAPONINS.

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TI ANTI INFLAMMATORY ACTIVITY OF SAPONINS AND OTHER NATURAL  
PRODUCTS.

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TI CONSTITUENTS OF MIMUSOPS-MANILKARA-D LEAVES AND SAPONINS OF  
MIMUSOPS-D SEED KERNELS.

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TI Detection of milligram amounts of mowrin (A toxic saponin of  
mahua seeds) in feeds.

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TI Mimusops hexandra. I. Constituents of fruit and seed.

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TI On the microscopy of Tengkawang and its distinction from real Illipe.  
Original Title: Zur Mikroskopie von Tengkawang und deren Unterscheidung  
von echter Illipe.

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TI About saponins and sapogenins.

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TI Über das Vorkommen und die Verteilung von Saponinen in pflanz-lichen  
Drogen.

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TI Au sujet de la toxicite du tourteau d'argan.

```
=> s (Butyrospermum or bassia or vitellaria)(s)(parkii or paradoxum or paradoxa) or  
"Butter Tree" or Shea or sheanut or "shea butter" or bambuk or galam) and (saponin  
or saponins or "bassic acid") and pd<20020628  
UNMATCHED RIGHT PARENTHESIS 'GALAM) AND'
```

The number of right parentheses in a query must be equal to the  
number of left parentheses.

```
=> s ((Butyrospermum or bassia or vitellaria)(s)(parkii or paradoxum or paradoxa)  
or "Butter Tree" or Shea or sheanut or "shea butter" or bambuk or galam) and  
(saponin or saponins or "bassic acid") and pd<20020628
```

```
55 BUTYROSPERMUM
257 BASSIA
2 BASSIAS
259 BASSIA
(BASSIA OR BASSIAS)
617 VITELLARIA
1 VITELLARIAS
617 VITELLARIA
(VITELLARIA OR VITELLARIAS)
47 PARKII
321 PARADOXUM
1969 PARADOXA
136 (BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM
OR PARADOXA)
8055 "BUTTER"
350 "BUTTERS"
8134 "BUTTER"
("BUTTER" OR "BUTTERS")
123867 "TREE"
108587 "TREES"
190167 "TREE"
("TREE" OR "TREES")
21 "BUTTER TREE"
("BUTTER"(W)"TREE")
313 SHEA
1 SHEAS
314 SHEA
(SHEA OR SHEAS)
18 SHEANUT
1 SHEANUTS
18 SHEANUT
(SHEANUT OR SHEANUTS)
313 "SHEA"
1 "SHEAS"
314 "SHEA"
("SHEA" OR "SHEAS")
8055 "BUTTER"
350 "BUTTERS"
8134 "BUTTER"
("BUTTER" OR "BUTTERS")
73 "SHEA BUTTER"
("SHEA"(W)"BUTTER")
1 BAMBUK
1 GALAM
1 GALAMS
2 GALAM
```

(GALAM OR GALAMS)  
7387 SAPONIN  
5077 SAPONINS  
10582 SAPONIN  
(SAPONIN OR SAPONINS)  
5077 SAPONINS  
13 "BASSIC"  
1512843 "ACID"  
416088 "ACIDS"  
1693653 "ACID"

("ACID" OR "ACIDS")  
11 "BASSIC ACID"  
("BASSIC"(W)"ACID")  
14978600 PD<20020628  
(PD<20020628)

L3 2 ((BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM  
OR PARADOXA) OR "BUTTER TREE" OR SHEA OR SHEANUT OR "SHEA BUTTER  
" OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID")  
AND PD<20020628

=> d 13 1-2 ti

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Value of sheanut cake as a dietary ingredient for broiler  
chickens.

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Biochemical and histological alterations in the liver of the broiler after  
ingestion of vegetable saponins and effects of dietary  
supplementation with adsorbents or methyl donor.

=> d 1-2 ibib

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
ACCESSION NUMBER: 1998:324744 BIOSIS Full-text  
DOCUMENT NUMBER: PREV199800324744  
TITLE: Value of sheanut cake as a dietary ingredient for  
broiler chickens.  
AUTHOR(S): Atuahene, C. C.; Donkoh, A. [Reprint author]; Asante, F.  
CORPORATE SOURCE: Univ. Sci. Technol., Fac. Agric., Dep. Anim. Sci., Kumasi,  
Ghana  
SOURCE: Animal Feed Science and Technology, (May, 1998)  
Vol. 72, No. 1-2, pp. 133-142. print.  
CODEN: AFSTDH. ISSN: 0377-8401.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 22 Jul 1998  
Last Updated on STN: 22 Jul 1998

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
ACCESSION NUMBER: 1997:165877 BIOSIS Full-text  
DOCUMENT NUMBER: PREV199799465080  
TITLE: Biochemical and histological alterations in the liver of  
the broiler after ingestion of vegetable saponins  
and effects of dietary supplementation with adsorbents or  
methyl donor.  
AUTHOR(S): Annongu, A. A.; Ter Meulen, U. [Reprint author]; Atteh, J.  
O.; Chinnah, T.  
CORPORATE SOURCE: Inst. Tierphysiol. Tierernaehrung, Vellnerweg 6, D-37077

SOURCE: Goettingen, Germany  
Archiv fuer Gefluegelkunde, (1996) Vol. 60, No.  
6, pp. 267-272.  
CODEN: AGEFAB. ISSN: 0003-9098.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 15 Apr 1997  
Last Updated on STN: 15 Apr 1997

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.16	10.37

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FILE COVERS 1907 - 28 Jan 2008 VOL 148 ISS 5  
FILE LAST UPDATED: 27 Jan 2008 (20080127/ED)

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=> s 13

THE ESTIMATED SEARCH COST FOR FILE 'CAPLUS' IS 40.28 U.S. DOLLARS  
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

104 BUTYROSPERMUM  
176 BASSIA  
109 VITELLARIA  
1 VITELLARIAS  
110 VITELLARIA  
(VITELLARIA OR VITELLARIAS)  
96 PARKII  
51 PARADOXUM  
709 PARADOXA  
137 (BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM  
OR PARADOXA)  
23247 "BUTTER"  
962 "BUTTERS"  
23352 "BUTTER"  
( "BUTTER" OR "BUTTERS" )  
65322 "TREE"  
46322 "TREES"  
93734 "TREE"



```

      ("TREE" OR "TREES")
14  "BUTTER TREE"
      ("BUTTER"(W) "TREE")
1043 SHEA
11  SHEANUT
1043 "SHEA"
23247 "BUTTER"
962  "BUTTERS"
23352 "BUTTER"
      ("BUTTER" OR "BUTTERS")
735  "SHEA BUTTER"
      ("SHEA"(W) "BUTTER")
0    BAMBUK
24   GALAM
17564 SAPONIN
16523 SAPONINS
22718 SAPONIN
      (SAPONIN OR SAPONINS)
16523 SAPONINS
26   "BASSIC"
4518496 "ACID"
1611072 "ACIDS"
5025931 "ACID"
      ("ACID" OR "ACIDS")
26   "BASSIC ACID"
      ("BASSIC"(W) "ACID")
22742520 PD<20020628
      (PD<20020628)
L4    12 ((BUTYROSPERMUM OR BASSIA OR VITELLARIA) (S) (PARKII OR PARADOXUM
      OR PARADOXA) OR "BUTTER TREE" OR SHEA OR SHEANUT OR "SHEA BUTTER"
      OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID")
      AND PD<20020628

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=> d 14 1-12 ti

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L4  ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI  Antimicrobial properties and phytochemical constituents of the leaves of
    African mistletoe (Tapinanthus dodoneifolius (DC) Danser) (Loranthaceae):
    an ethnomedicinal plant of Hausaland, Northern Nigeria

L4  ANSWER 2 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI  Phytochemical and antimicrobial studies on Butyrospermum
    paradoxum

L4  ANSWER 3 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI  Value of sheanut cake as a dietary ingredient for broiler
    chickens

L4  ANSWER 4 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI  Biochemical and histological alterations in the liver of the broiler after
    ingestion of vegetable saponins and effects of dietary
    supplementation with adsorbents or methyl donor

L4  ANSWER 5 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI  Toxicological assessment of native and industrial fermented sheabuttercake
    in nutrition of broilers

L4  ANSWER 6 OF 12  CAPLUS  COPYRIGHT 2008 ACS on STN
TI  Isolation and properties of saponins from Madhuca butyracea
    seeds

```

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The determination of the structure of the tetracyclic triterpene alcohol, basseol. II. The dehydrogenation of basseol and of bassenol-triterpenes of the  $\beta$ -amyrenol group

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The contents of the shea nut, the seed of *Eutyropernum parkii*

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Sapogenins. IX. Occurrence and constitution of basic acid

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Sapogenins. V. Basic acid

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Some African oil seeds

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The Seed of *Mimosa djava*

=> d 14 2, 6-12 ibib

L4 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2001:45819 CAPLUS Full-text  
 DOCUMENT NUMBER: 134:338213  
 TITLE: Phytochemical and antimicrobial studies on *Butyrospermum paradoxum*  
 Ogunwande, I. A.; Bello, M. O.; Olawore, O. N.; Mulli, K. A.  
 CORPORATE SOURCE: Department of Pure and Applied Chemistry, Ladoke Akintola University of Technology, Ogbomoso, 4000, Nigeria  
 SOURCE: Fitoterapia (2001), 72(1), 54-56  
 CODEN: FTRPAE; ISSN: 0367-326X  
 PUBLISHER: Elsevier Science B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1987:530911 CAPLUS Full-text  
 DOCUMENT NUMBER: 107:130911  
 TITLE: Isolation and properties of saponins from *Madhuca butyracea* seeds  
 Lalitha, Thaire; Seshadri, Ramachandran; Venkataraman, Lalgudi V.  
 CORPORATE SOURCE: Cent. Food Technol. Res. Inst., Mysore, 570 013, India  
 SOURCE: Journal of Agricultural and Food Chemistry (1987), 35(5), 744-8  
 CODEN: JAFCAU; ISSN: 0021-8561  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L4 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1951:29613 CAPLUS Full-text

DOCUMENT NUMBER: 45:29613  
ORIGINAL REFERENCE NO.: 45:5129g-i, 5130a-i, 5131a-i, 5132a-b  
TITLE: The determination of the structure of the tetracyclic  
triterpene alcohol, basseol. II. The dehydrogenation  
of basseol and of bassenol-triterpenes of the  
 $\beta$ -amyrenol group  
AUTHOR(S): Coelho, Fernando Pinto  
CORPORATE SOURCE: Univ. Coimbra, Port.  
SOURCE: Rev. faculdade cienc. Univ., Coimbra (1949),  
18, 71-140  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1943:24552 CAPLUS Full-text  
DOCUMENT NUMBER: 37:24552  
ORIGINAL REFERENCE NO.: 37:3961i, 3962a-b  
TITLE: The contents of the shea nut, the seed of  
*Butyrospermum parkii*  
AUTHOR(S): Bauer, K. H.; Moll, H.  
SOURCE: Arch. Pharm. (1942), 280, 37-45  
From: Chem. Zentr. 1942, I, 3120.  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1940:43305 CAPLUS Full-text  
DOCUMENT NUMBER: 34:43305  
ORIGINAL REFERENCE NO.: 34:6636i, 6637a-i, 6638a-b  
TITLE: Sapogenins. IX. Occurrence and constitution of  
bassic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. K.  
SOURCE: Journal of the Chemical Society (1940)  
713-30  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1939:54210 CAPLUS Full-text  
DOCUMENT NUMBER: 33:54210  
ORIGINAL REFERENCE NO.: 33:7809a-h  
TITLE: Sapogenins. V. Basic acid  
AUTHOR(S): Heywood, B. Jason; Kon, George A. R.; Ware, Lancelot  
L.  
SOURCE: Journal of the Chemical Society (1939)  
1124-9  
CODEN: JCSOA9; ISSN: 0368-1769  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
DOCUMENT NUMBER: 30:4760  
ORIGINAL REFERENCE NO.: 30:633g-i, 634a-i, 635a-i, 636a  
TITLE: Some African oil seeds  
AUTHOR(S): Anon.  
SOURCE: Bulletin of the Imperial Institute, London (1935), 33, 271-93  
CODEN: BUIIAD; ISSN: 0366-4279

DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

L4 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1911:3241 CAPLUS Full-text  
DOCUMENT NUMBER: 5:3241  
ORIGINAL REFERENCE NO.: 5:594g-h  
TITLE: The Seed of Mimusops djave  
AUTHOR(S): Fickendey, E.  
SOURCE: Seifensieder-Zeitung (1911), 37, 165,193-4  
CODEN: SSZTAW; ISSN: 0371-3296  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable

=> d hist full

(FILE 'HOME' ENTERED AT 21:31:01 ON 28 JAN 2008)

FILE 'BIOSIS' ENTERED AT 21:31:15 ON 28 JAN 2008

- L1 61 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SAPOTACEAE OR "BUTTER TREE" OR "BASSIA PARKII" OR SHEA OR SHEANUT OR VITELLARIA OR "SHEA BUTTER" OR BAMBUK OR GALAM OR MOWRAH) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND PD<20020628
- L2 61 SEA ABB=ON PLU=ON (BUTYROSPERMUM OR SAPOTACEAE OR "BUTTER TREE" OR "BASSIA PARKII" OR SHEA OR SHEANUT OR VITELLARIA OR "SHEA BUTTER" OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND PD<20020628  
D L2 1-61 TI
- L3 2 SEA ABB=ON PLU=ON ((BUTYROSPERMUM OR BASSIA OR VITELLARIA)(S) (PARKII OR PARADOXUM OR PARADOXA) OR "BUTTER TREE" OR SHEA OR SHEANUT OR "SHEA BUTTER" OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND PD<20020628  
D L3 1-2 TI  
D 1-2 IBIB
- FILE 'CAPLUS' ENTERED AT 21:35:09 ON 28 JAN 2008
- L4 12 SEA ABB=ON PLU=ON ((BUTYROSPERMUM OR BASSIA OR VITELLARIA)(S) (PARKII OR PARADOXUM OR PARADOXA) OR "BUTTER TREE" OR SHEA OR SHEANUT OR "SHEA BUTTER" OR BAMBUK OR GALAM) AND (SAPONIN OR SAPONINS OR "BASSIC ACID") AND PD<20020628  
D L4 1-12 TI  
D L4 2, 6-12 IBIB

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FILE BIOSIS  
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CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 23 January 2008 (20080123/ED)

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FILE COVERS 1907 - 28 Jan 2008 VOL 148 ISS 5  
FILE LAST UPDATED: 27 Jan 2008 (20080127/ED)

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FULL ESTIMATED COST	55.24	65.61

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NEWS 2	JUL 28	CA/CAPlus patent coverage enhanced
NEWS 3	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 4	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 5	JUL 28	STN Viewer performance improved
NEWS 6	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS 7	AUG 13	CA/CAPlus enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS 8	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS 9	AUG 15	CAPlus currency for Korean patents enhanced
NEWS 10	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS 11	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS 12	SEP 25	CA/CAPlus current-awareness alert options enhanced to accommodate supplemental CAS indexing of

NEWS 13 SEP 26 exemplified prophetic substances  
 WPIDS, WPINDEX, and WPIX coverage of Chinese and  
 and Korean patents enhanced

NEWS 14 SEP 29 IFICLS enhanced with new super search field

NEWS 15 SEP 29 EMBASE and EMBAL enhanced with new search and  
 display fields

NEWS 16 SEP 30 CAS patent coverage enhanced to include exemplified  
 prophetic substances identified in new Japanese-  
 language patents

NEWS 17 OCT 07 EPFULL enhanced with full implementation of EPC2000

NEWS 18 OCT 07 Multiple databases enhanced for more flexible patent  
 number searching

NEWS 19 OCT 22 Current-awareness alert (SDI) setup and editing  
 enhanced

NEWS 20 OCT 22 WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT  
 Applications

NEWS 21 OCT 24 CHEMLIST enhanced with intermediate list of  
 pre-registered REACH substances

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
 AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE COVERS 1907 - 7 Nov 2008 VOL 149 ISS 20  
FILE LAST UPDATED: 6 Nov 2008 (20081106/ED)

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.48	0.69

FULL ESTIMATED COST

FILE 'BIOSIS' ENTERED AT 12:00:41 ON 07 NOV 2008  
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FILE COVERS 1926 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 5 November 2008 (20081105/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

=> s ((shea or kombo)(s)(kernel or nut or seed or pit or pip) or Butyrospermum or Vitellaria) and (meal or flour) and @pd<20020628  
'20020628' NOT A VALID FIELD CODE

```
332 SHEA
  1 SHEAS
333 SHEA
    (SHEA OR SHEAS)
  8 KOMBO
12970 KERNEL
  8870 KERNELS
18062 KERNEL
    (KERNEL OR KERNELS)
  9450 NUT
  4799 NUTS
12541 NUT
    (NUT OR NUTS)
179439 SEED
108103 SEEDS
229603 SEED
    (SEED OR SEEDS)
11336 PIT
  8462 PITS
18116 PIT
    (PIT OR PITS)
  3135 PIP
  548 PIPS
  3567 PIP
    (PIP OR PIPS)
  63 (SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP)
  55 BUTYROSPERMUM
  634 VITELLARIA
```

```

        1 VITELLARIAS
    634 VITELLARIA
        (VITELLARIA OR VITELLARIAS)
57916 MEAL
15038 MEALS
65817 MEAL
        (MEAL OR MEALS)
21869 FLOUR
4167 FLOURS
23019 FLOUR
        (FLOUR OR FLOURS)
        0 @PD<20020628
L1      0 ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTY
        ROSPERMUM OR VITELLARIA) AND (MEAL OR FLOUR) AND @PD<20020628

=> s ((shea or kombo)(s)(kernel or nut or seed or pit or pip) or Butyrospermum or
Vitellaria) and (meal or flour) and pd<20020628
    332 SHEA
    1 SHEAS
    333 SHEA
        (SHEA OR SHEAS)
    8 KOMBO
12970 KERNEL
8870 KERNELS
18062 KERNEL
        (KERNEL OR KERNELS)
    9450 NUT
    4799 NUTS
12541 NUT
        (NUT OR NUTS)
179439 SEED
108103 SEEDS
229603 SEED
        (SEED OR SEEDS)
    11336 PIT
    8462 PITS
    18116 PIT
        (PIT OR PITS)
    3135 PIP
    548 PIPS
    3567 PIP
        (PIP OR PIPS)
    63 (SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED OR PIT OR PIP)
    55 BUTYROSPERMUM
    634 VITELLARIA
    1 VITELLARIAS
    634 VITELLARIA
        (VITELLARIA OR VITELLARIAS)
57916 MEAL
15038 MEALS
65817 MEAL
        (MEAL OR MEALS)
21869 FLOUR
4167 FLOURS
23019 FLOUR
        (FLOUR OR FLOURS)
14978682 PD<20020628
        (PD<20020628)
L2      2 ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTY
        ROSPERMUM OR VITELLARIA) AND (MEAL OR FLOUR) AND PD<20020628

```



=> d 12 1-2 ti

L2 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI Enzyme-assisted extraction of shea fat: Evidence from light  
microscopy on the degradative effects of enzyme treatment on cells of  
shea kernel meal.

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
TI ALLANTOIN IN SHEA KERNEL.

=> d 12 2 ibib

L2 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN  
ACCESSION NUMBER: 1977:215817 BIOSIS Full-text  
DOCUMENT NUMBER: PREV197764038181; BA64:38181  
TITLE: ALLANTOIN IN SHEA KERNEL.  
AUTHOR(S): ATA J K B A; FEJER D  
SOURCE: Ghana Journal of Agricultural Science, (1975) No.  
8, pp. 149-152.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: Unavailable

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.73	4.42

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FILE COVERS 1907 - 7 Nov 2008 VOL 149 ISS 20  
FILE LAST UPDATED: 6 Nov 2008 (20081106/ED)

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THE ESTIMATED SEARCH COST FOR FILE 'CAPLUS' IS 25.44 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

1152 SHEA  
20 KOMBO  
19834 KERNEL  
10543 KERNELS  
26665 KERNEL  
(KERNEL OR KERNELS)  
15240 NUT  
7384 NUTS  
19827 NUT  
(NUT OR NUTS)  
169741 SEED  
106778 SEEDS  
220803 SEED  
(SEED OR SEEDS)  
24056 PIT  
20360 PITS  
38720 PIT  
(PIT OR PITS)  
2973 PIP  
500 PIPS  
3395 PIP  
(PIP OR PIPS)  
176 (SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP)  
113 BUTYROSPERMUM  
127 VITELLARIA  
1 VITELLARIAS  
128 VITELLARIA  
(VITELLARIA OR VITELLARIAS)  
66262 MEAL  
22224 MEALS  
75673 MEAL  
(MEAL OR MEALS)  
59220 FLOUR  
16202 FLOURS  
62799 FLOUR  
(FLOUR OR FLOURS)  
22773848 PD<20020628  
(PD<20020628)

L3 14 ((SHEA OR KOMBO) (S) (KERNEL OR NUT OR SEED OR PIT OR PIP) OR BUTY  
ROSPERMUM OR VITELLARIA) AND (MEAL OR FLOUR) AND PD<20020628

=> d l3 1-14 ti

L3 ANSWER 1 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Cosmetic composition for care of sensitive skin containing oleanolic acid

L3 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Enzyme-assisted extraction of shea fat: evidence from light  
microscopy on the degradative effects of enzyme treatment on cells of  
shea kernel meal

L3 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Enzyme-assisted aqueous extraction of shea fat: a rural approach

L3 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
TI Enzyme-assisted aqueous extraction of fat from kernels of the  
shea tree, *Butyrospermum parkii*

L3 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN

TI Chemical composition of some plant products of the savanna forest zone of Nigeria  
 L3 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Integral technology of fat extraction and meal production from shea nuts  
 L3 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Coloring matter for foods  
 L3 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Allantoin in shea kernel  
 L3 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Solvent extraction of pelleted oilseeds and related materials  
 L3 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI A comparative study of anti-locust baits, with special reference to base materials  
 L3 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Saponinins. V. Basic acid  
 L3 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Some African oil seeds  
 L3 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI Annual report of the agricultural chemist for the year 1933  
 L3 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 TI The uses of mowrah

=> d 13 3-7, 9, 11, 12, 14 ibib

L3 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1995:389362 CAPLUS Full-text  
 DOCUMENT NUMBER: 122:159111  
 ORIGINAL REFERENCE NO.: 122:29329a,29332a  
 TITLE: Enzyme-assisted aqueous extraction of shea fat: a rural approach  
 AUTHOR(S): Tano-Debrah, Kwaku; Ohta, Yoshiyuki  
 CORPORATE SOURCE: Faculty Applied Biological Sciences, Hiroshima University, Higashi-Hiroshima-shi, 724, Japan  
 SOURCE: Journal of the American Oil Chemists' Society (1995), 72(2), 251-6  
 CODEN: JAOCA7; ISSN: 0003-021X  
 PUBLISHER: AOCS Press  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L3 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1995:80529 CAPLUS Full-text  
 DOCUMENT NUMBER: 122:54531  
 ORIGINAL REFERENCE NO.: 122:10585a,10588a  
 TITLE: Enzyme-assisted aqueous extraction of fat from kernels of the shea tree, *Eurytosperrum parkii*  
 AUTHOR(S): Tano-Debrah, Kwaku; Ohta, Yoshiyuki  
 CORPORATE SOURCE: Fac. Applied Biological Sci., Hiroshima Univ.,

SOURCE: Higashi-Hiroshima, 724, Japan  
Journal of the American Oil Chemists' Society ( 1984), 71(9), 979-83  
CODEN: JAOCA7; ISSN: 0003-021X

DOCUMENT TYPE: Journal  
LANGUAGE: English

L3 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1987:101056 CAPLUS Full-text  
DOCUMENT NUMBER: 106:101056  
ORIGINAL REFERENCE NO.: 106:16541a,16544a  
TITLE: Chemical composition of some plant products of the savanna forest zone of Nigeria  
AUTHOR(S): Farinu, G. O.  
CORPORATE SOURCE: Dep. Biochem., Univ. Ilorin, Ilorin, Nigeria  
SOURCE: Food Chemistry (1986), 22(4), 315-20  
CODEN: FOCHDJ; ISSN: 0308-8146  
DOCUMENT TYPE: Journal  
LANGUAGE: English

L3 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1985:44632 CAPLUS Full-text  
DOCUMENT NUMBER: 102:44632  
ORIGINAL REFERENCE NO.: 102:7010h,7011a  
TITLE: Integral technology of fat extraction and meal production from shea nuts  
AUTHOR(S): Lanzani, A.; Bondioli, P.; Camurati, F.; Cardillo, M.; Gasparoli, A.; Mariani, C.; Fedeli, E.; Ponzetti, A.; Pieralisi, G.  
CORPORATE SOURCE: Staz. Sper. Ind. Oli E Dei Grassi, Milan, Italy  
SOURCE: Rivista Italiana delle Sostanze Grasse (1984), 61(7), 375-83  
CODEN: RISGAD; ISSN: 0035-6808  
DOCUMENT TYPE: Journal  
LANGUAGE: Italian

L3 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1981:45843 CAPLUS Full-text  
DOCUMENT NUMBER: 94:45843  
ORIGINAL REFERENCE NO.: 94:7473a,7476a  
TITLE: Coloring matter for foods  
INVENTOR(S): Oura, Maremi; Tsumura, Haruo; Kubota, Hayato  
PATENT ASSIGNEE(S): Fuji Oil Co., Ltd., Japan  
SOURCE: U.S., 6 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 4229483	A	19801021	US 1978-969261	19781214 <--
JP 54095775	A	19790728	JP 1978-1813	19780110 <--
JP 59037059	B	19840907		
PRIORITY APPLN. INFO.:			JP 1978-1813	A 19780110

L3 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 1963:83142 CAPLUS Full-text  
DOCUMENT NUMBER: 58:83142

ORIGINAL REFERENCE NO.: 58:14325h,14326b  
 TITLE: Solvent extraction of pelleted oilseeds and related materials  
 AUTHOR(S): Pritchard, J. L. R.  
 CORPORATE SOURCE: J. Bibby Sons Ltd., Liverpool, UK  
 SOURCE: Journal of the American Oil Chemists' Society ( 1963), 40(No. 4), 22,34,39  
 CODEN: JAOCA7; ISSN: 0003-021X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1939:54210 CAPLUS Full-text  
 DOCUMENT NUMBER: 33:54210  
 ORIGINAL REFERENCE NO.: 33:7809a-h  
 TITLE: Sapogenins. V. Basic acid  
 AUTHOR(S): Heywood, B. Jason; Kon, George A. R.; Ware, Lancelot L.  
 SOURCE: Journal of the Chemical Society (1939) 1124-9  
 CODEN: JCSOA9; ISSN: 0368-1769  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1936:4760 CAPLUS Full-text  
 DOCUMENT NUMBER: 30:4760  
 ORIGINAL REFERENCE NO.: 30:633g-i,634a-i,635a-i,636a  
 TITLE: Some African oil seeds  
 AUTHOR(S): Anon.  
 SOURCE: Bulletin of the Imperial Institute, London ( 1935), 33, 271-93  
 CODEN: BUIIAD; ISSN: 0366-4279  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

L3 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1927:14049 CAPLUS Full-text  
 DOCUMENT NUMBER: 21:14049  
 ORIGINAL REFERENCE NO.: 21:1719b-c  
 TITLE: The uses of mowrah  
 AUTHOR(S): Carlos, A. S.  
 SOURCE: Fertilizer, Feeding-Stuffs and farm Supplies J. ( 1926), 11, 858  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

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(FILE 'HOME' ENTERED AT 12:00:22 ON 07 NOV 2008)

FILE 'CAPLUS' ENTERED AT 12:00:37 ON 07 NOV 2008

FILE 'BIOSIS' ENTERED AT 12:00:41 ON 07 NOV 2008

L1 0 SEA ABB=ON PLU=ON ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED  
 OR PIT OR PIP) OR BUTYROSPERMUM OR VITELLARIA) AND (MEAL OR  
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 L2 2 SEA ABB=ON PLU=ON ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED  
 OR PIT OR PIP) OR BUTYROSPERMUM OR VITELLARIA) AND (MEAL OR

FLOUR) AND PD<20020628  
D L2 1-2 TI  
D L2 2 IBIB

L3 FILE 'CAPLUS' ENTERED AT 12:01:49 ON 07 NOV 2008  
14 SEA ABB=ON PLU=ON ((SHEA OR KOMBO)(S)(KERNEL OR NUT OR SEED  
OR PIT OR PIP) OR BUTYROSPERMUM OR VITELLARIA) AND (MEAL OR  
FLOUR) AND PD<20020628  
D L3 1-14 TI  
D L3 3-7, 9, 11, 12, 14 IBIB

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FILE COVERS 1907 - 7 Nov 2008 VOL 149 ISS 20  
FILE LAST UPDATED: 6 Nov 2008 (20081106/ED)

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FILE BIOSIS  
FILE COVERS 1926 TO DATE.  
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT  
FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 5 November 2008 (20081105/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

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SINCE FILE	TOTAL
ENTRY	SESSION
43.29	47.71

FULL ESTIMATED COST

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